TOHT90 hE2T8860

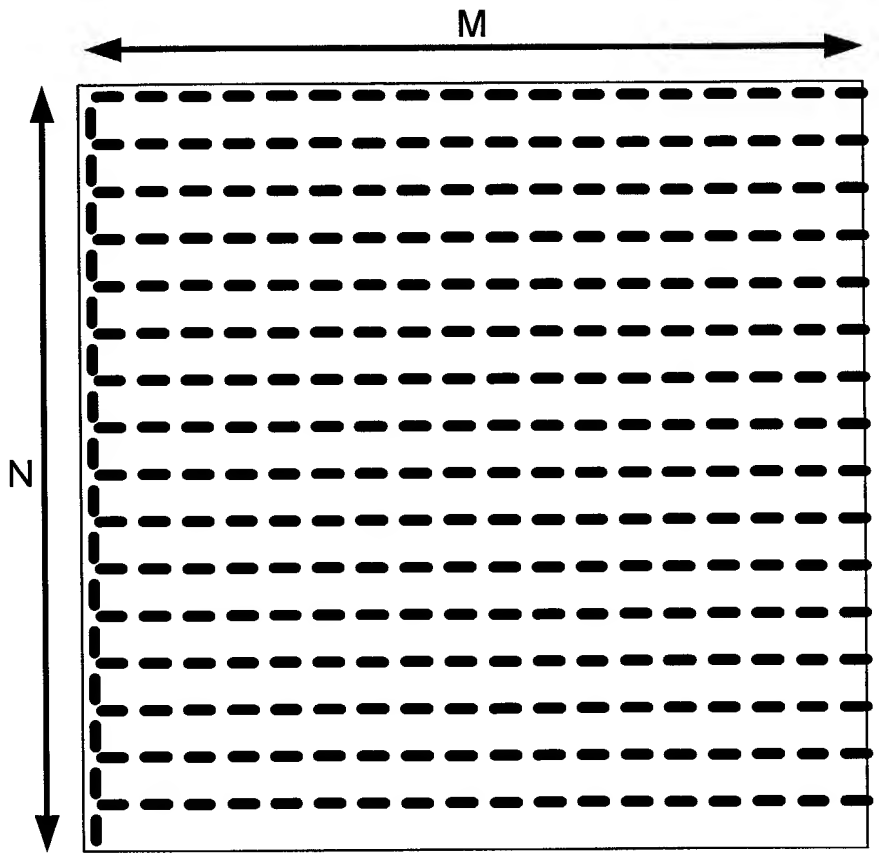

FIGURE 1A
Prior Art

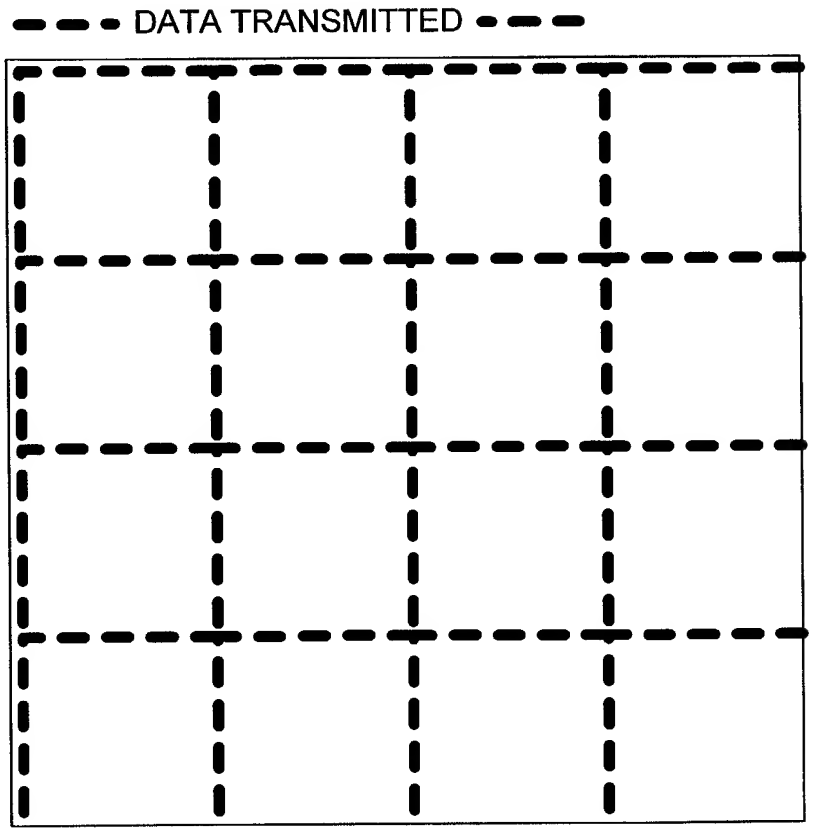

FIGURE 1B

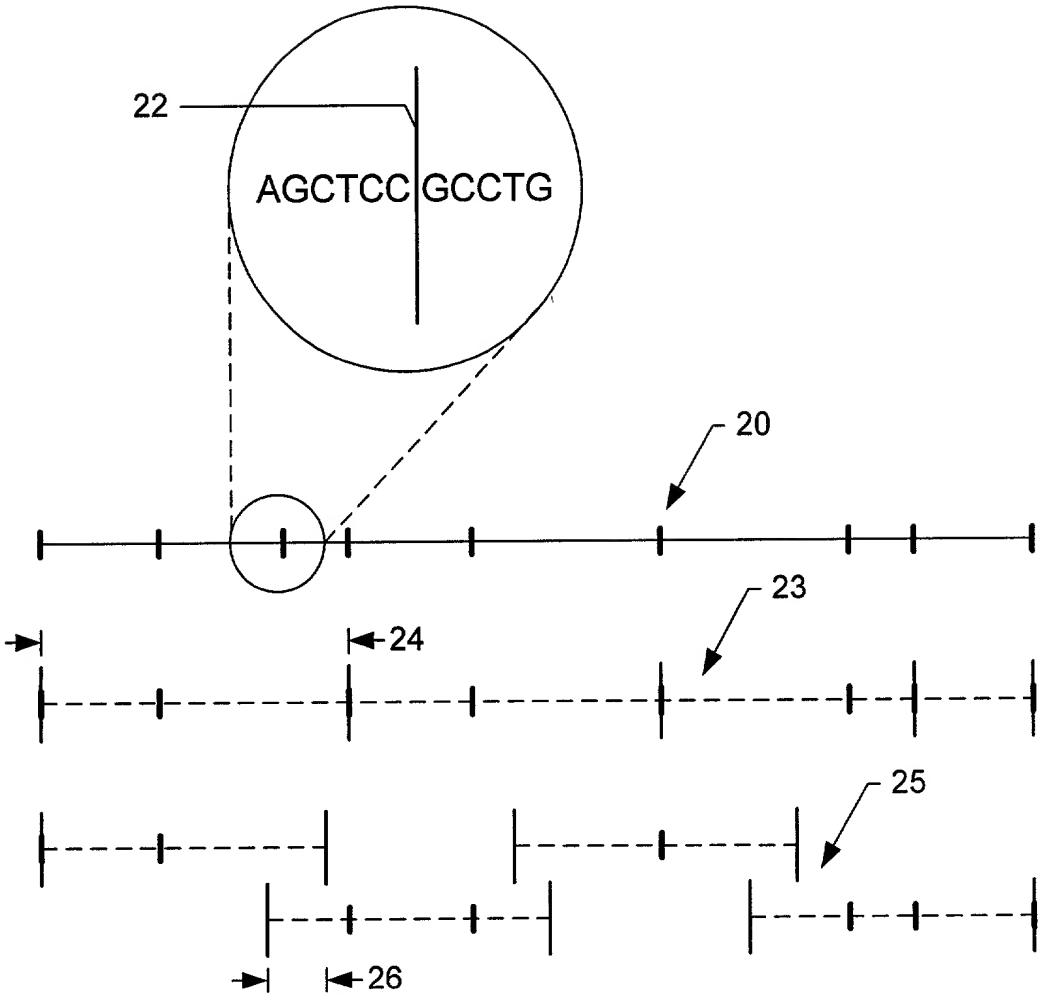

FIGURE 2A

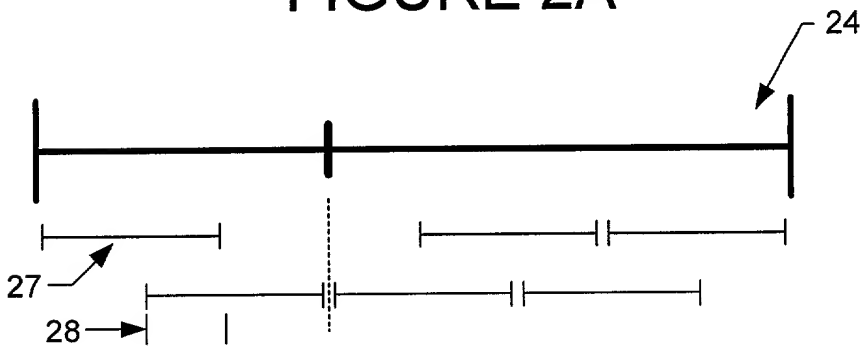

FIGURE 2B

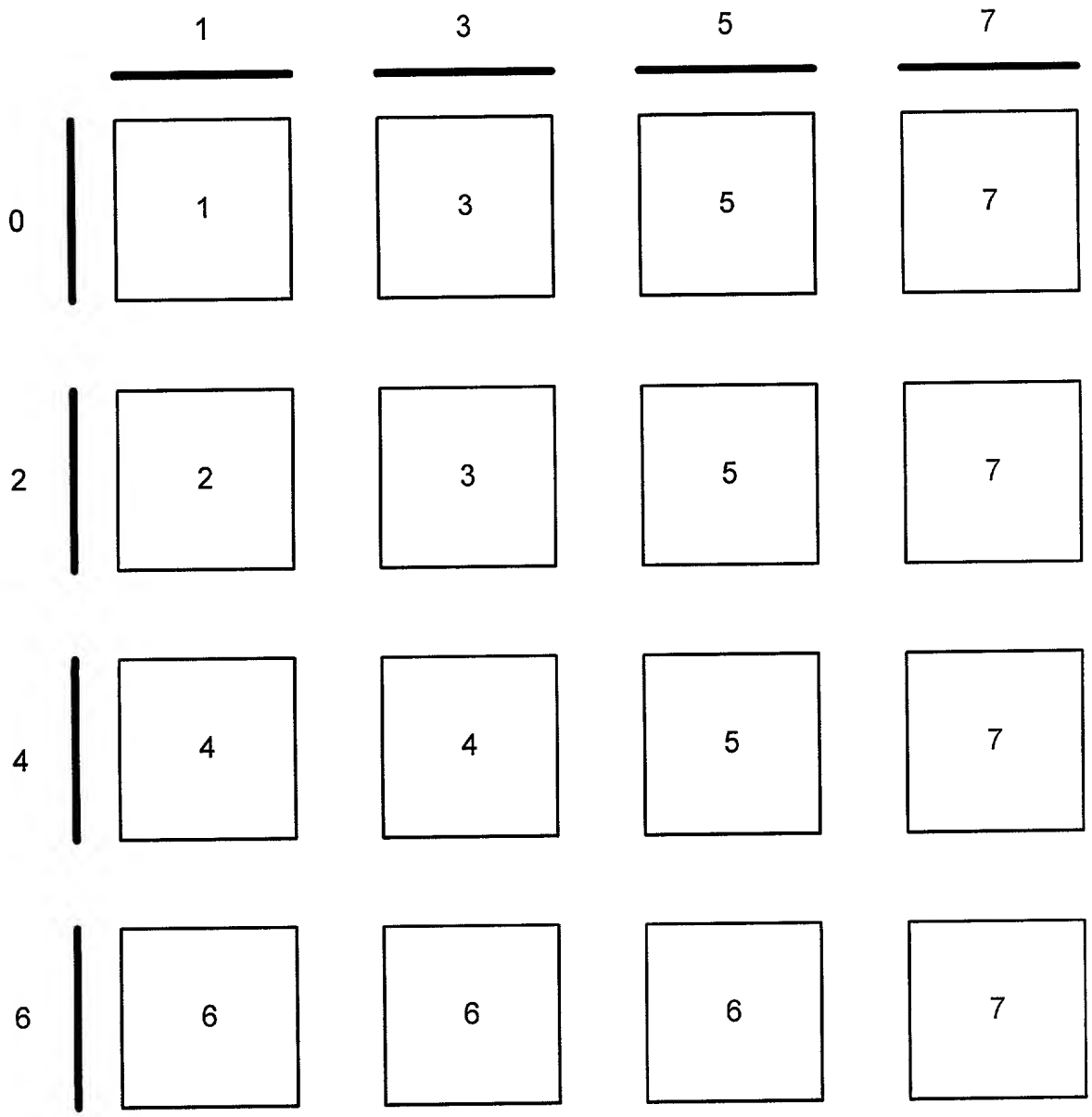

FIGURE 3

Doc 2 - 95 - 4 - 2 - 5 - 9 - 8 - 0

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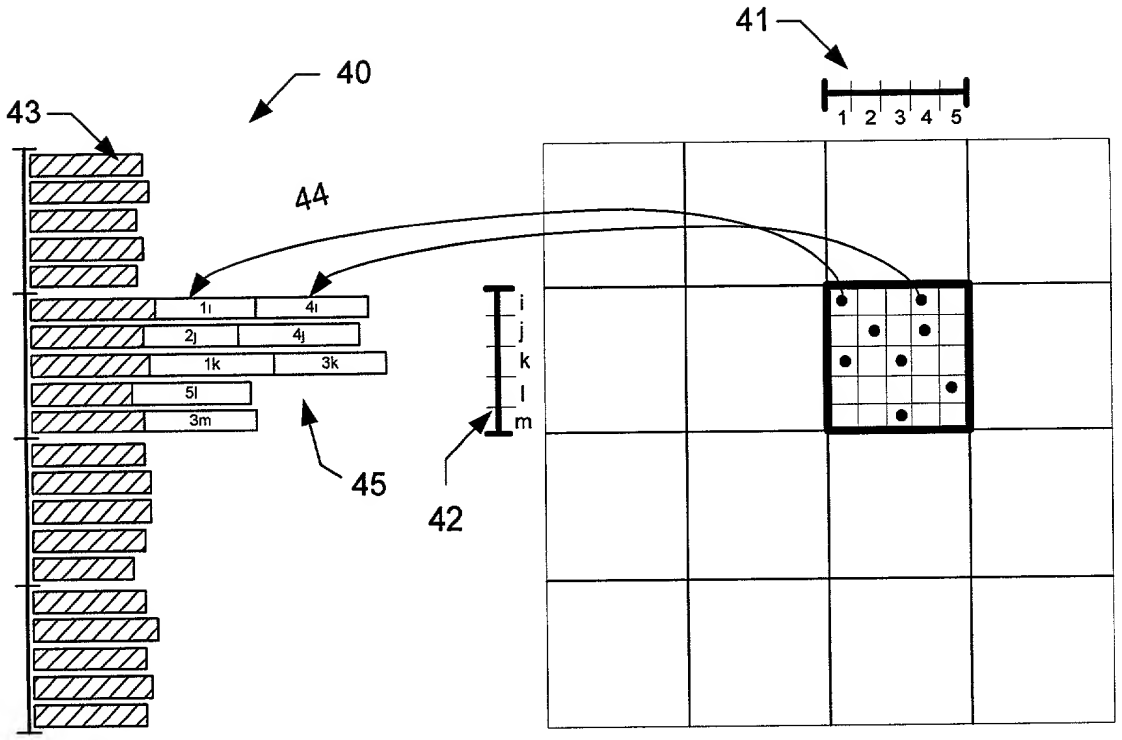

FIGURE 4A

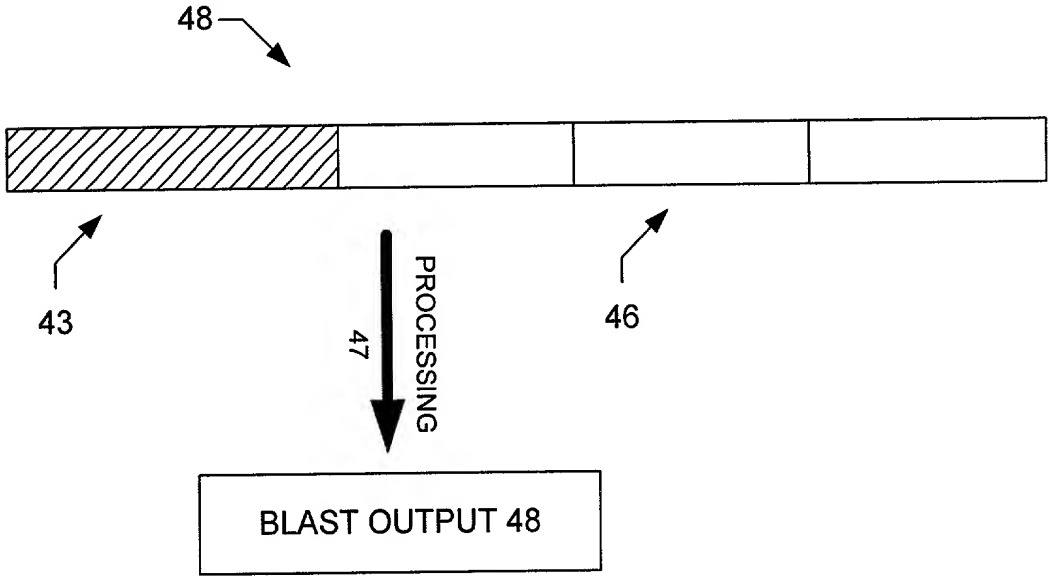

FIGURE 4B

TOHT90" hE2T88860

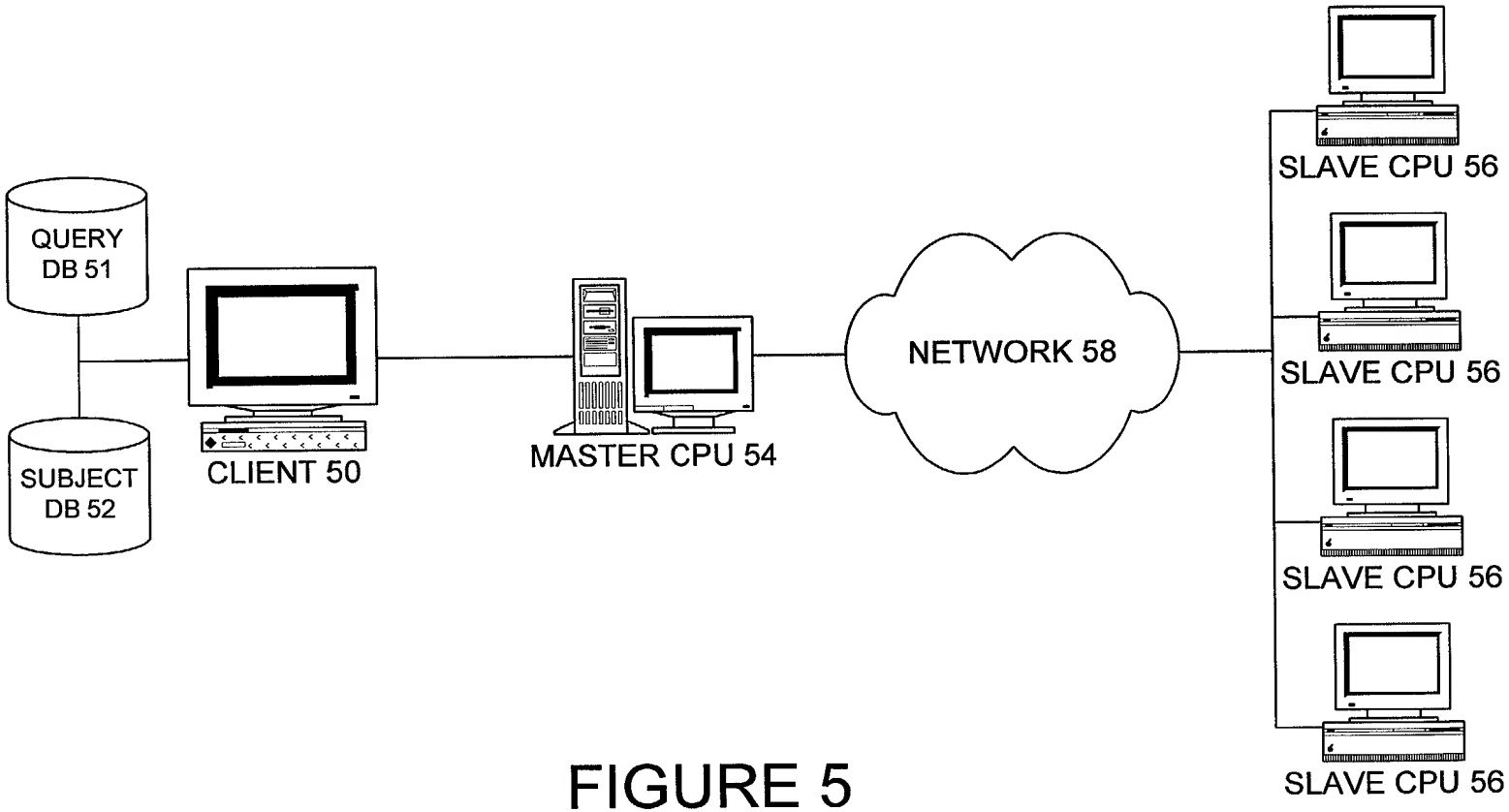

FIGURE 5

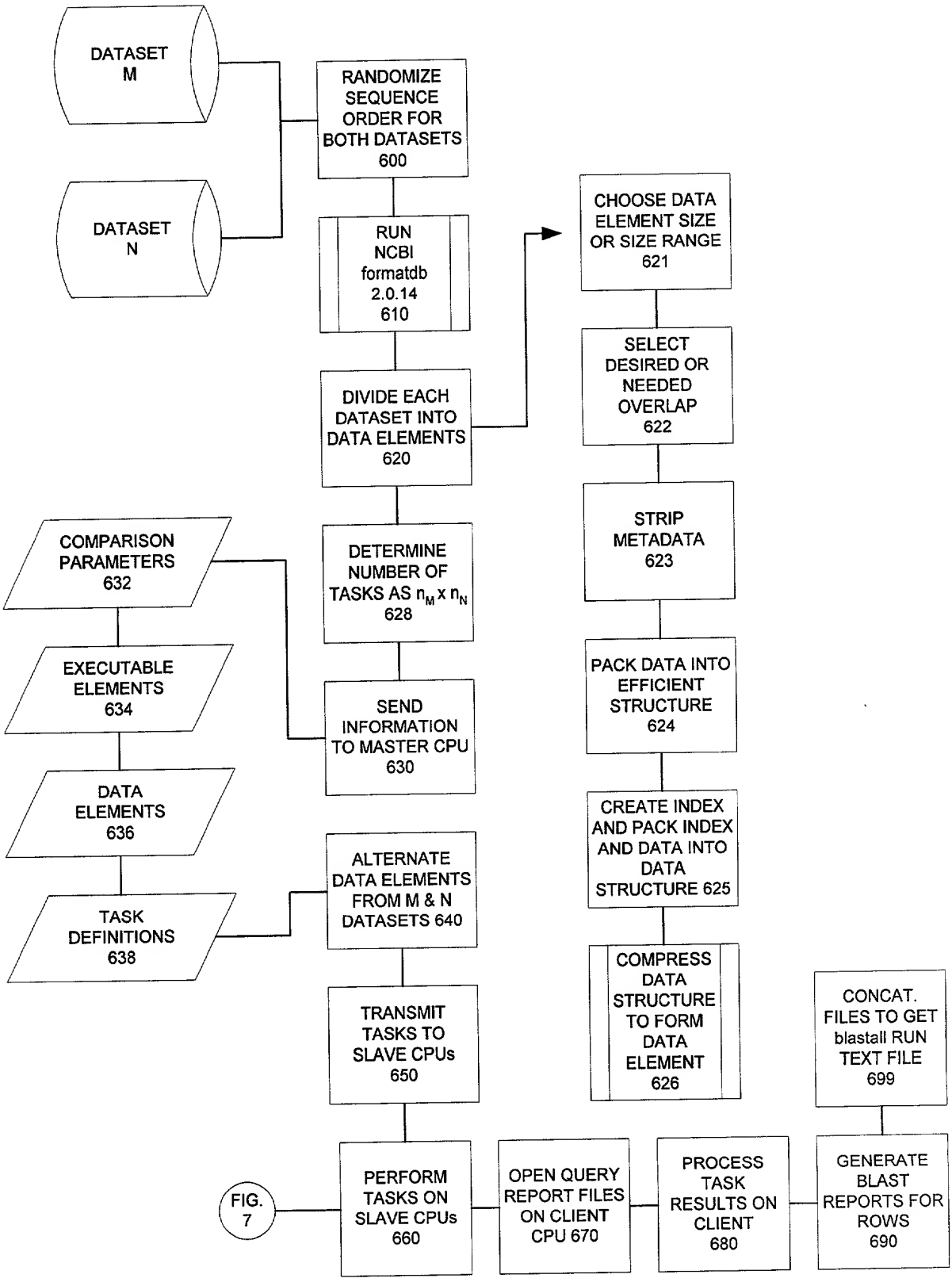
DATASET M
DATASET N
RANDOMIZE SEQUENCE ORDER FOR BOTH DATASETS 600
RUN NCBI formatdb 2.0.14 610
DIVIDE EACH DATASET INTO DATA ELEMENTS 620
CHOOSE DATA ELEMENT SIZE OR SIZE RANGE 621
SELECT DESIRED OR NEEDED OVERLAP 622
STRIP METADATA 623
PACK DATA INTO EFFICIENT STRUCTURE 624
CREATE INDEX AND PACK INDEX AND DATA INTO DATA STRUCTURE 625
COMPRESS DATA STRUCTURE TO FORM DATA ELEMENT 626
DETERMINE NUMBER OF TASKS AS n_M x n_N 628
COMPARISON PARAMETERS 632
EXECUTABLE ELEMENTS 634
DATA ELEMENTS 636
TASK DEFINITIONS 638
SEND INFORMATION TO MASTER CPU 630
ALTERNATE DATA ELEMENTS FROM M & N DATASETS 640
TRANSMIT TASKS TO SLAVE CPUs 650
PERFORM TASKS ON SLAVE CPUs 660
OPEN QUERY REPORT FILES ON CLIENT CPU 670
PROCESS TASK RESULTS ON CLIENT 680
GENERATE BLAST REPORTS FOR ROWS 690
CONCAT. FILES TO GET blastall RUN TEXT FILE 699
FIG. 7

FIGURE 6

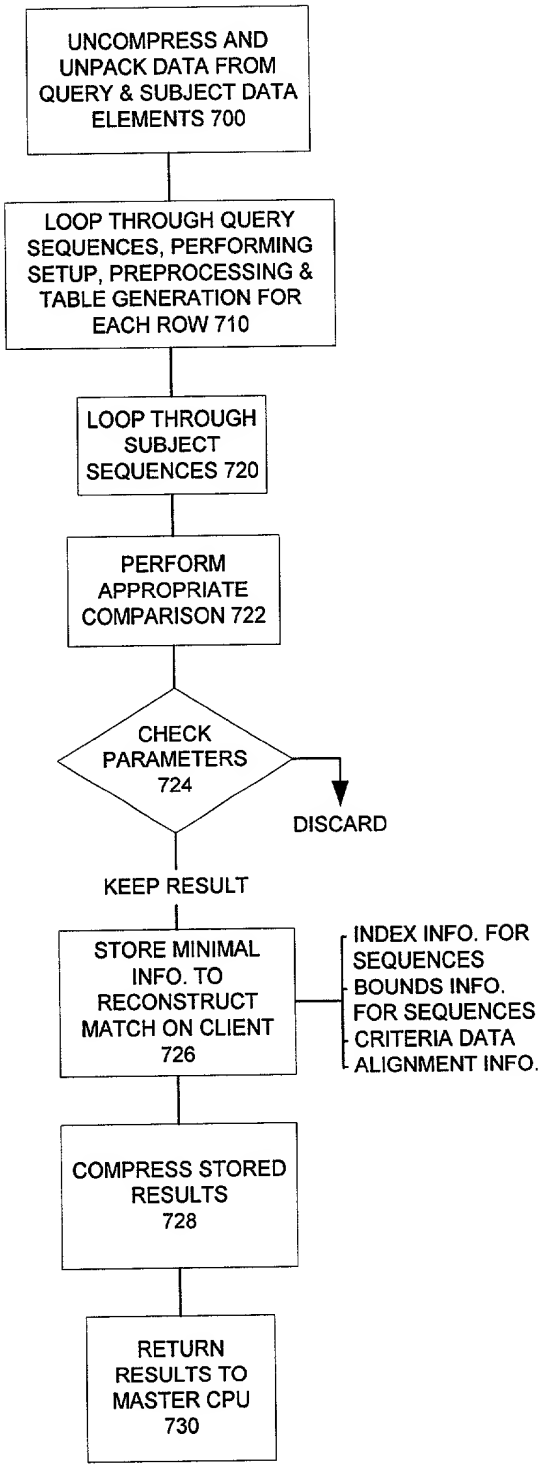
UNCOMPRESS AND UNPACK DATA FROM QUERY & SUBJECT DATA ELEMENTS 700
LOOP THROUGH QUERY SEQUENCES, PERFORMING SETUP, PREPROCESSING & TABLE GENERATION FOR EACH ROW 710
LOOP THROUGH SUBJECT SEQUENCES 720
PERFORM APPROPRIATE COMPARISON 722
CHECK PARAMETERS 724
DISCARD
KEEP RESULT
STORE MINIMAL INFO. TO RECONSTRUCT MATCH ON CLIENT 726
INDEX INFO. FOR SEQUENCES
BOUNDS INFO. FOR SEQUENCES
CRITERIA DATA
ALIGNMENT INFO.
COMPRESS STORED RESULTS 728
RETURN RESULTS TO MASTER CPU 730

FIGURE 7